CLAIMS

What is claimed is:

- 1. An apparatus for burn-in testing comprising:
- 5 a device under test adapted to receive a body bias voltage;
 - a voltage supply for providing said body bias voltage to said device under test; and

a wiring board for coupling said device under test and said voltage supply, wherein said device under test is subject to a test temperature that is regulated according to said body bias voltage.

- 2. The apparatus of Claim 1 wherein said body bias voltage is selected to achieve a particular test temperature measured at said device under test.
- 15 3. The apparatus of Claim 1 further comprising a test controller coupled to said device under test via said wiring board.
 - 4. The apparatus of Claim 1 further comprising a voltage supply for providing an operating voltage to said device under test.

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- 5. The apparatus of Claim 1 wherein said device under test comprises a positive-channel metal-oxide semiconductor (PMOS) device.
- 6. The apparatus of Claim 5 wherein said body bias voltage is in the range of approximately zero to five volts.

- 7. The apparatus of Claim 1 wherein said device under test comprises a negative-channel metal-oxide semiconductor (NMOS) device.
- 8. The apparatus of Claim 7 wherein said body bias voltage is in the
 5 range of approximately zero to minus ten volts.
 - 9. A method of burn-in testing of a device under test, said method comprising:

applying an operating voltage to said device under test;

applying a body bias voltage to said device under test, wherein said body bias voltage is selected to achieve a particular test temperature measured at said device under test; and

measuring temperature at said device under test.

- 15 10. The method of Claim 9 further comprising adjusting said body bias voltage to adjust temperature at said device under test.
 - 11. The method of Claim 9 wherein said device under test comprises a positive-channel metal-oxide semiconductor (PMOS) device.

12. The method of Claim 11 wherein said body bias voltage is in the range of approximately zero to five volts.

13. The method of Claim 9 wherein said devices under test comprises a25 negative-channel metal-oxide semiconductor (NMOS) device.

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- 14. The method of Claim 13 wherein said body bias voltage is in the range of approximately zero to minus ten volts.
 - 15. An apparatus for burn-in testing comprising:

a plurality of devices under test, each device under test adapted to receive a body bias voltage, wherein the temperature at each device under test is monitored;

a voltage supply for providing body bias voltages applied to said devices under test; and

a wiring board comprising circuitry that individually couples each device under test to said voltage supply such that each device under test can receive a different body bias voltage.

- 16. The apparatus of Claim 15 wherein a body bias voltage applied to a device under test is selected to achieve a particular test temperature measured at said device under test.
- 17. The apparatus of Claim 15 further comprising a test controller coupled to said device under test via said wiring board.
- 20 18. The apparatus of Claim 15 further comprising a voltage supply for providing an operating voltage to said devices under test.
 - 19. The apparatus of Claim 15 wherein said devices under test comprise positive-channel metal-oxide semiconductor (PMOS) devices.

20. The apparatus of Claim 19 wherein said body bias voltages are in the range of approximately zero to five volts.

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- 21. The apparatus of Claim 19 wherein said devices under test comprise negative-channel metal-oxide semiconductor (NMOS) devices.
- 5 22. The apparatus of Claim 21 wherein said body bias voltages are in the range of approximately zero to minus ten volts.